

Raghav Sethi

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EXPERIENCE

Backend Software Engineer (Full-time)

May 2022 – XXXX

Faire Wholesale Inc. | Waterloo, ON

- Engineered high-performing APIs, facilitating thousands of calls per minute with minimal latency. Resulted in a 40% increase in overall system throughput, serving a user base of 100k Brands & 500k Retailers.
- Led end-to-end implementation of a Notification System, encompassing design documentation, MySQL schema creation, and CRUD endpoint development. Rigorously tested to ensure robustness, enhancing system functionality.
- Collaborated with design teams to transform complex specifications into efficient API functionalities. Achieved a 20% boost in user engagement and a 15% increase in customer satisfaction in brand onboarding process on Faire.com.
- Developed custom Datadog dashboards to monitor key performance metrics, improving error rates, throughput, and database query execution times. Facilitated health monitor meetings, resulting in a 25% improvement in system reliability and a 20% decrease in incident response times.

Frontend Software Developer (Co-op)

Sept 2020 – Dec 2020

MappedIn Inc | Waterloo, ON

- Designed and developed 2+ pages every day for the company's website using Figma and built with Gatsby & React with a great attention to detail.
- Collaborated with Marketing and Sales teams to bring the latest content to the website improving SEO by 50%.
- Created company's virtual escape room game with 10+ puzzles for social activities.

Full Stack Web Developer (Co-op)

Jan 2020 – Apr 2020

LumenEd | Kitchener, ON

- Deployed BigBlueButton on test servers (AWS, DigitalOcean) and customized the functionality using Ruby on Rails.
- Optimized SQL queries to retrieve the data 80% faster in admin dashboard.
- Written python/bash scripts to generate various user statistics from server logs in csv, XML, txt formats.
- Led the development of a Tutor Marketplace booking system using WooCommerce. Tailored the solution to align with company requirements, demonstrating adaptability and strategic thinking.
- Customized website using HTML5, CSS, SASS, JavaScript, jQuery, PHP for tutors' marketplace and tutor partners.

Instructional Support Assistant (ISA) CS247/246/137/136/115 | Math 647 (Co-op)

Sept 2018 – Dec 2019

David R. Cheriton School of Computer Science | Waterloo, ON

- Facilitated student learning & understanding (relating OOP C++/Python, Software engineering design patterns, Algorithms, Data Structures, Pointers, Memory Management etc.) during lectures, tutorials & answered questions.
- Created testing scripts to test over 900 code submissions, marked assignments/projects and provided constructive feedback for all aspects of code correctness/quality.
- Designed new course webpage (Bootstrap, JS) for CS115/247, improving overall aesthetics and utility of webpage for students and course staff.

Private Tutor | Computer Science / Mathematics / Statistics

Sept 2018 – April 2024

Private | Waterloo, ON

- Conducting code reviews for 10+ students per day, focusing on code correctness, efficiency, and readability.
- Curating 3+ example code in Java/Python/C++ depicting various programming concepts to improve learning.
- Managing 20+ students per week with different study schedules and learning habits.
- Assisting students in 10+ courses including compiler construction, OOP, algorithms & data structures, competitive programming, databases, linear algebra, calculus, statistics, LP optimization etc.

EDUCATION

Bachelors of Mathematics (Co-operative Program)



(2016 -2022)

- Majors in Combinatorics & Optimization, Computational Mathematics, Computer Science, Data Science in Geomatics

Diploma in Excellence in GIS (Geographical Information Systems) | University of Waterloo

Leadership Certificate Program (Credential ID C000001529) | University of Waterloo

TECHNOLOGIES

Programming Languages: Kotlin, C++, Java, Swift, Python, JavaScript (ES6+), TypeScript, Ruby, Go, Rust C#, PHP

JS Runtimes: Node, Deno, Bun

Package Managers: npm, yarn, bun

Frontend Frameworks: React, NextJs **Equivalent**(Angular, Vue, SvelteKit, ASP.NET, Ember.js)

Frontend UI Frameworks: Bootstrap, MaterialUI, Tailwind, StyledComponents, ShadCn

Web Tech: RESTful APIs, GraphQL

Backends: PocketBase, Supabase, Express, Redux

Databases: PostgreSQL, MySQL, MongoDB, Snowflake, Mode, SQLite, Oracle Database, Microsoft SQL Server, MariaDB, Redis, Cassandra, Firebase Firestore, Amazon DynamoDB

Monitoring and Logging: Datadog, Grafana, **Eq**(ELK Stack (Elasticsearch, Logstash, Kibana), Splunk, Prometheus)

Software Infrastructure: Docker, Terraform, AWS (Amazon Web Services), GCP (Google Cloud Platform), Microsoft Azure Cloud

Mobile: Flutter Flow, React Native, Electron

Development Tools: Git, Github, Copilot, VS Code, Gitlab, Visual Studio, Jet Brains IntelliJ, PyCharm, Jupyter Notebook

COURSEWORK

- **Machine Learning and Data Science, Prompt Engineering**
- **Object Oriented Programming**
- **Databases and Relational Model**
- **Web Infrastructure (HTTPS, Networking)**
- **Cryptography**
- **Web3, DeFi Apps, Blockchain**
- **Networking and Security**
- **Unix and Linux Scripting**